The following changes have been made in GRB Simulator Field Update 4:

- Output format of Fixed Length Vectors (FLV) into GRB stream has been changed.
 - Previously, an 8 byte field was output into the GRB stream at the beginning of the FLV, similar to the 8 byte field populated for each dimension of a Multi-Dimensional Array (MDA). This field has been removed from the GRB Simulator Output stream.
 - o Output format for FLVs will now match GRB Data Service output.
 - o The only affected instrument is MAG: the "Instrument ID" variable is sent as an FLV.
- An issue where sending certain large unsigned data values for GLM Proxy data resulting in an invalid data type error has been corrected. This would occur for data values greater than 2ⁿ 1, where n is the number of bits in the unsigned integer data type. Values in these ranges are now sent correctly.
- GRB Packet Secondary Header field sizes have been changed.
 - o Packets now have a 2 bit Assembly ID field and a 5 bit GRB Version Field.
 - Packets are generated with the new Secondary Header field sizes and reflect FPS updates to GRB Data Service GRB Packet output.
 - The replacement command now expects the new field sizes.
 - o The absolute size of a GRB Packet Secondary Header remains unchanged.
 - Total GRB Secondary Header size remains 8 octets.
 - Two bits were removed from the Assembly ID field and two bits were added to the GRB Version Field.
- A new GRB Configuration file is provided that incorporates all GRB Simulator related product baseline updates since Field Update 3.
 - The following APID values have been corrected or updated:
 - Solar Imagery Data APIDs now consist of six APIDs in the range of 1158 1163 (0x486 – 0x48B).
 - Values for EXIS_SFXR_Meta and EXIS_XRS have been reconfigured to 898 and 899, respectively (0x382 and 0x383).
 - Updated APID values do not change scenario scripts, but do generate output reflecting the new APID values.
 - Any updates to the product baseline involving product data variable names or dimensions for L1b are updated in the GRB Simulator configuration.
 - These updates are limited to non-imaging products and do not impact imagery products.
 - GRB Simulator now uses non-image proxy data matching the new APID configurations.
- Mode 3 and Mode 4 test scenarios have been updated.
 - Scenarios for Mode 3 and Mode 4 now send test product data for two additional SUVI imagery products using the APIDs defined in the configuration update.
 - Scenario for Mode 4 now sends test data for GRB Info.